

Furthermore, as in the related art, a broadcast index field [BCASE] BCAST_INDEX of an expanded system parameter message is used, where a value of BCAST_INDEX is set as 'i, ($1 \leq i \leq 7$)' when a BS provides a SMS and '0' otherwise. If the value of the BCAST_INDEX using 3 bits is set as 'i,' the broadcast cycle in which the broadcast message is transmitted can be calculated using Equation 4. After the value of B is obtained by Equation 4, a broadcast message can be transmitted by a broadcast cycle of (B+3) and the first slot of a broadcast cycle can be calculated by Equation 5.

According to the present invention, however, a BS may provide a broadcast indicator and a QPCH_BI_SUPPORTED field to MSs to notify that the BS is transmitting broadcast message(s). If a BS provides a broadcast indicator to MSs, the QPCH_BI_SUPPORTED of the expanded system parameter message would be set to a value of "1" to notify an existence of a broadcast indicator, and otherwise to a value of "0". Here, the value of QPCH_BI_SUPPORTED may alternatively be set to "0" to notify the existence of a broadcast indicator and to ["0,"] "1," otherwise.

The following are mark-ups to show changes made to paragraphs starting at page 10, line 9, and ending at page 10, line 14:

However, if the QPCH_BI_SUPPORTED field value of the extended system parameter message is set to '1' and if a MS is configured to receive a broadcast indicator, such MS would check the QPCH transmitted 100ms before each slot of the paging

channel in the broadcast cycle to determine the broadcast indicator value and the BCAST_INDEX value. Thus, if the QPCH_BI_SUPPORTED field value is set to "1" and the broadcast indicator is also set to "1," a MS would determine that a broadcast page information and broadcast message(s) is transmitted through the paging channel and would monitor the paging channel to receive the necessary messages.

If the QPCH_BI_SUPPORTED field value is set to "1" while the broadcast indicator is set to "0," and the BCAST_INDEX value is "0," then a MS would enter into an idle state without monitoring the paging channel.

B. Clean Specification Changes

Please replace paragraphs starting at page 9, line 7, and ending at page 9, line 18 with the following paragraphs:

Furthermore, as in the related art, a broadcast index field `BCAST_INDEX` of an expanded system parameter message is used, where a value of `BCAST_INDEX` is set as 'i, ($1 \leq i \leq 7$)' when a BS provides a SMS and '0' otherwise. If the value of the `BCAST_INDEX` using 3 bits is set as 'i,' the broadcast cycle in which the broadcast message is transmitted can be calculated using Equation 4. After the value of B is obtained by Equation 4, a broadcast message can be transmitted by a broadcast cycle of (B+3) and the first slot of a broadcast cycle can be calculated by Equation 5.

According to the present invention, however, a BS may provide a broadcast indicator and a `QPCH_BI_SUPPORTED` field to MSs to notify that the BS is transmitting broadcast message(s). If a BS provides a broadcast indicator to MSs, the `QPCH_BI_SUPPORTED` of the expanded system parameter message would be set to a value of "1" to notify an existence of a broadcast indicator, and otherwise to a value of "0". Here, the value of `QPCH_BI_SUPPORTED` may alternatively be set to "0" to notify the existence of a broadcast indicator and to "1," otherwise.

Please replace paragraphs starting at page 10, line ⁶/₉, and ending at page 10, line 14 with the following paragraphs:

02 However, if the QPCH_BI_SUPPORTED field value of the extended system parameter message is set to '1' and if a MS is configured to receive a broadcast indicator, such MS would check the QPCH transmitted 100ms before each slot of the paging channel in the broadcast cycle to determine the broadcast indicator value and the BCAST_INDEX value. Thus, if the QPCH_BI_SUPPORTED field value is set to "1" and the broadcast indicator is also set to "1," a MS would determine that a broadcast page information and broadcast message(s) is transmitted through the paging channel and would monitor the paging channel to receive the necessary messages.

If the QPCH_BI_SUPPORTED field value is set to "1" while the broadcast indicator is set to "0," and the BCAST_INDEX value is "0," then a MS would enter into an idle state without monitoring the paging channel.